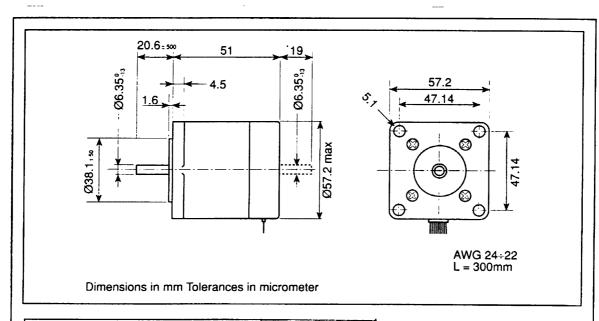
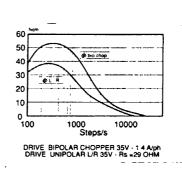


TECHNICAL DATA



Specifications		Y163/Y164
Step angle		1.8°
Step angle accuracy	%	5
Rated phase current	Α	1.0
Phase resistance	Ω	5
Phase inductance	mH	9.5
Holding torque*	Ncm	50
Detent torque	Ncm	6
Rotor inertia	gr cm²	124
Mass	Kg	0.5
Insulation class		В
Two phases "ON"		

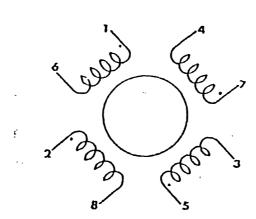




STEPPER MOTOR TYPE TECHNICAL DATA

NEW CONNECTION

!			
UNIPOLAR	TERMINAL	COLOUR	
<i>p</i> 1	1	ORANGE	
នា	3	AEITON.	
,91 соннон	5 4 6	BROWN-RED - (LINK)	
62	2	BLUE	
<u>P2</u>	4	GREEN	
ву соннон	7 & 8	BLACK-NHITE - (LINK)	
BIPOLAR SERIES	1	ORANGE	
व्र	3	MOTEA	
QZ	2	HLIJE	
972	4	GREEN	
180CATE - (LINK)	5 4 6	BROWN-RED	
ISLOATE - (LINK)	7 & 8	BLACK-WHITE	
BIPOLAR PARALLE			
.P1	1 4 5	erown-orange	
pī	3 4 6	RED-YELLOW	
,012	2 4 7	BLACK-BLUB	
<u> 1972</u>	4 4 8	GREEN-WHITE	



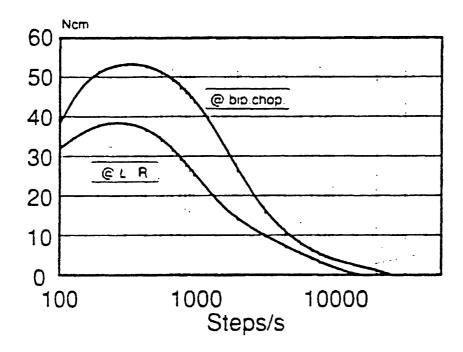
REVISED CONNECTION DETAILS FOR STEPPER MOTOR TYPE Y163/4 AS FROM PRODUCTION BATCH RECEIVED 22.04.97



TECHNICAL DATA

STEPPER MOTOR Y163

PERFORMANCE CHARACTERISTICS FOR UNIPOLAR AND BIPOLAR DRAWING.



DRIVE: BIPOLAR CHOPPER 35V - 1.4 A/ph DRIVE: UNIPOLAR L/R 35V - Rs = 29 OHM

FROM THE DATA SHEET YOU WILL SEE THAT THE MOTOR HAS A RESISTANCE PER PHASE OF 5 OHMS. IF A RESISTANCE OF 29 OHMS IS PLACED IN SERIES WITH THE WINDING RESISTANCE, WE HAVE A TOTAL OF 34 OHMS IN THE CIRCUIT. IF 35 VOLTS IS APPLIED THE CIRCUIT WILL DRAW 1 AMP APPROXIMATELY. IF THE AVAILABLE CURRENT IS LIMITED TO LESS THAN 1 AMP, THE AVAILABLE TORQUE FROM THE MOTOR WILL BE ATTENUATED.

WE CAN ASSUME THAT THE SAME SITUATION WILL EXIST IN A PULSE WIDTH MODULATED UNIPOLAR DRIVE CIRCUIT i.e. RESTRICTING THE CURRENT AVAILABLE TO THE MOTOR RESULTS IN THE MOTOR HAVING TO PERFORM CLOSER TO ITS LIMIT THEREFORE LESS POWER TO DISSIPATE ELSEWHERE.

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